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ORIGINAL

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07/14/2004 09:24 AM

To Lorie Baker/R3/USEPA/US@EPA

cc [redacted]

bcc

Subject Lab Assignment for DAS R31935-Rt 7 Dump/NJ Fireworks -To ASQAB, Ft. Meade, MD

Please send samples for R31935 (attached) to our lab here at ASQAB, Ft. Meade, MD., with the following proviso:

Perchlorates in Soils & Sediments

The soil samples were prepared for inorganic analysis by weighing approximately four grams of the wet soil sample. 20 mL of Milli-Q water was added to the samples and the slurry was vortexed for one minute. The prepared samples were centrifuged for 10 minutes at 2000 rpm. The liquid phase was filtered through a 0.45μm syringe filter prior to inorganic analyses using EPA Method 314.0 (Determination of Perchlorate in Drinking Water Using Ion Chromatography) on the Dionex DX-600. A laboratory reagent blank (LRB), laboratory fortified blank (LFB), laboratory fortified blank at the maximum conductivity threshold (LFB at MCT) were prepared and taken through the process. In addition a matrix duplicate (LD2) and a matrix spike (LSF) were also prepared for each set of 10 samples and taken through the process.

Thanks,

[redacted]

R3 CST

R31935.doc

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U.S EPA Region III Analytical Request Form

RAS CASE #:	DAS #: R31935	NSF #:	
Date: July 7, 2004	QAPP/SAP:	Data Validation Level: M3	
Site: RT 7 DUMP/NJ FIREWORKS			
Address: OLD PHILADELPHIA ROAD	City: ELKTON	State: MD	
Latitude: 39 DEG 36' 15"	Longitude: 75 DEG 52' 50"		
Program: CERCLA	CERCLIS#: MDSFN0305563	Activity: ESI	
Account #: 04T03W302DD2CE319LA00	Operable Unit: 00	Spill ID: E319	
Preparer: PEGGY SMITH	Phone: 410-537-3192	Fax: 410-537-3472	E-mail: PSMITH@MDE.STATE.MD.US
OSC/RPM: LORIE BAKER	Phone: 215-814-3355	Fax:	E-mail: BAKER.LORIE@EPA.GOV
Site Leader: PHILL ANDERSON	Phone: 410-537-3448	Fax: 410-537-3472	E-mail: PANDERSON@MDE.STATE.MD.US
EPA CO: MDE	Contract Type:	Prime:	Sub:
Analytical TAT: 30		Analytical + Validation TAT: 42	
Ship Date From: August 3, 2004		Ship Date To: August 5, 2004	

Samples	Method	Parameter	Matrix
27	EPA METHOD 314	PERCHLORATE	SOLID
19	EPA METHOD 314	PERCHLORATE	AQUEOUS

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Instruction: ELECTRONIC DATA DELIVERABLES REQUIRED. PLEASE CALL PHILL ANDERSON FOR ADDITIONAL INFORMATION.
EPA 314 is a method for perchlorates in aqueous samples. The DI water extraction used for perchlorates in soil is as follows:
The soil samples are prepared for inorganic analysis by weighing approximately four grams of the wet soil sample. 20 mL of Milli-Q water is added to the samples and the slurry is vortexed for one minute. The prepared samples are centrifuged for 10 minutes at 2000 rpm. The liquid phase is filtered through a 0.45Fm syringe filter prior to inorganic analyses using EPA Method 314.0 (Determination of Perchlorate in Drinking Water Using Ion Chromatography) on the Dionex DX-600. A laboratory reagent blank (LRB), laboratory fortified blank (LFB), laboratory fortified blank at the maximum conductivity threshold (LFB at MCT) are prepared and taken through the process. In addition a matrix duplicate (LD2) and a matrix spike (LSF) are also prepared for each set of 10 samples and taken through the process.
DL limit desired: 1 ppm for solids, 1 ppb for aqueous.